Master index Volumes 21-30

Abadi, M., M. Burrows, C. Kaufman and B. Lampson, Authentication and delega-		
tion with smart-cards	21 (1993)	93-113
Abadi, M. and L. Cardelli, A theory of primitive objects: Second order systems	25 (1995)	81-116
Achatz, K. and W. Schulte, Massive parallelization of divide-and-conquer algo-	(1772)	01 110
rithms over powerlists	26 (1996)	59 - 78
Aiguier, M., see G. Bernot	23 (1994)	227-286
Alencar, P.S.C., see C.J.P. Lucena	24 (1995)	41- 61
Anderson, J.H., see M. Moir	25 (1995)	1- 39
Andrews, J.H., Foundational issues in implementing constraint logic programming systems		
Apt, K.R. and M. Hagiya, Foreword	25 (1995)	117-147
Apt, K.R., Arrays, bounded quantification and iteration in logic and constraint logic	21 (1993)	91- 92
programming	26 (1000)	122 140
Arcelli, F., see U.M. Borghoff	26 (1996)	133-148
Arnold, A., D. Bégay and JP. Radoux, The embedded software of an electricity	30 (1998)	201-225
meter: An experience in using formal methods in an industrial project	39 (1007)	02 110
in an industrial project	28 (1997)	93-110
Back, R.J.R., A.J. Martin and K. Sere, Specifying the Caltech asynchronous micro-		
processor	36 11006	50 05
Backhouse, R., Mathematics of program construction	26 (1996)	79- 97
Backhouse, R., see H. Doornbos	26 (1996)	5- 9
Backhouse, R.C., J.P.H.W. van den Eijnde and A.J.M. van Gasteren, Calculating	26 (1996)	217-236
path algorithms	22 /100/0	7 10
Backhouse, R.C., see P.F. Hoogendijk	22 (1994)	3- 19
Bagnara, R., A hierarchy of constraint systems for data-flow analysis of constraint	22 (1994)	67-105
logic-based languages	20 (1000)	110 155
Banach, R., On regularity in software design	30 (1998)	119-155
Baugh, Jr., J.W., see W.M. Elscaidy	24 (1995) 29 (1997)	221-248
Bégay, D., see A. Arnold	28 (1997)	99-122 93-110
Bellegarde, F. and J. Hook, Substitution: A formal methods case study using	20 (1997)	93-110
monads and transformations	23 (1994)	287-311
Benhamou, F., see P. Van Hentenryck	30 (1998)	83-118
Bent, F., see D. Duggan	27 (1996)	37-83
Berghammer, R. and B. von Karger, Towards a design calculus for CSP	26 (1996)	99-115
Bergstra, J.A., J.A. Hillebrand and A. Ponse, Grid protocols based on synchronous communication		
	29 (1997)	199-233
Bernot, G., P. Le Gall and M. Aiguier, Label algebras and exception handling	23 (1994)	227-286
Bicarregui, J., J. Dick, B. Matthews and E. Woods, Making the most of formal specification through animation, testing and proof		
Ridoit M. P. Hannicker and M. Wissian Palenting and proof	29 (1997)	53 - 78
Bidoit, M., R. Hennicker and M. Wirsing, Behavioural and abstractor specifications	25 (1995)	149-186
Bijlsma, A. and C.S. Scholten, Point-free substitution	27 (1996)	205-214
Bird, R.S., Functional algorithm design	26 (1996)	15- 31

Elsevier Science B.V.

Bloom, B. and R. Paige, Transformational design and implementation of a new		
efficient solution to the ready simulation problem	24 (1995)	189-220
Börger, E. and D. Rosenzweig, A mathematical definition of full Prolog	24 (1995)	249-286
Borghoff, U.M., R. Pareschi, F. Arcelli and F. Formato, Constraint-based protocols		
for distributed problem solving	30 (1998)	201-225
Bos, S.H.J. and M.A. Reniers, The 12C-bus in discrete-time process algebra	29 (1997)	235-258
Bossi, A., M. Bugliesi, M. Gabbrielli, G. Levi and M.C. Meo, Differential logic		
programs: Programming methodologies and semantics	27 (1996)	217-262
Boyle, J.M., see S. Fitzpatrick	28 (1997)	1- 41
Brezočnik, Z., see T. Kapus	29 (1997)	23- 52
Bruns, G., An industrial application of modal process logic	29 (1997)	3- 22
Bueno, F., M. Hermenegildo, U. Montanari and F. Rossi, Partial order and		
contextual net semantics for atomic and locally atomic CC programs	30 (1998)	51- 82
Bugliesi, M., see A. Bossi	27 (1996)	217-262
Burrows, M., see M. Abadi	21 (1993)	93-113
Butler, M.J., Stepwise refinement of communicating systems	27 (1996)	139-173
Cai, W., see J. Gibbons	23 (1994)	1- 18
Campos, S., E.M. Clarke and M. Minea, Symbolic techniques for formally verifying		
industrial systems	29 (1997)	79- 98
Cardelli, L., see M. Abadi	25 (1995)	81-116
Chakravarty, M.M.T., Y. Guo, M. Köhler and H.C.R. Lock, GOFFIN: Higher-		
order functions meet concurrent constraints	30 (1998)	157-199
Chandy, K.M. and B.A. Sanders, Predicate transformers for reasoning about con-	00 (1220)	
current computation	24 (1995)	129-148
Chandy, K.M. and B.A. Sanders, Erratum to "Predicate transformers for reasoning	24 (1772)	147 110
about concurrent computation"	29 (1997)	335
Cheng, M.H.W., see P. Rondogiannis	23 (1994)	55- 89
Clarke, E.M., see S. Campos	29 (1997)	
Cleaveland, R., see W.M. Elseaidy	29 (1997)	99-122
Clint, M., see S. Fitzpatrick	28 (1997)	1- 41
Codognet, F., Foreword	30 (1998)	1- 2
Collette, P., Composition of assumption-commitment specifications in a UNITY	30 (1770)	- 6
style	23 (1994)	107-125
Consel, C. and S.C. Khoo, Semantics-directed generation of a Prolog compiler	21 (1993)	263-291
Coquand, T., An algorithm for type-checking dependent types		167-177
Curtis, S. and G. Lowe, Proofs with graphs	26 (1996)	197-216
Curus, S. and C. Lowe, Proofs with graphs	26 (1996)	17/-210
Danvy, O., Back to direct style	22 (1994)	183-195
De Francesco, N., U. Montanari and D. Yankelevich, Axiomatizing CCS, nets and	22 (1224)	193-193
processes	21 (1993)	225-261
De Francesco, N., A. Santone and G. Vaglini, State space reduction by non-	21 (1993)	223-201
standard semantics for deadlock analysis	30 (1998)	309-338
de Moor, O., see P.H.B. Gardiner		21 - 44
de Vries, L., see A. Kaldewaij	22 (1994)	
Desharnais, J., see M. Frappier	24 (1995)	
	26 (1996)	237-254
Deville, Y., see T. Nguyen	30 (1998)	227-250
Dick, J., see J. Bicarregui	29 (1997)	53 - 78
Dielissen, V.J., see A. Kaldewaij	26 (1996)	149-165
Doornbos, H. and R. Backhouse, Reductivity	26 (1996)	
Duggan, D. and F. Bent, Explaining type inference	27 (1996)	37 - 83
Charges IC and I Samuel	28 (1007)	100 001
Ebergen, J.C., see J. Segers	27 (1996)	185-204
Elseaidy, W.M., R. Cleaveland and J.W. Baugh Jr, Modeling and verifying active	30 /1005	00 100
structural control systems	29 (1997)	99-122
Esparza, J., Model checking using net unfoldings	23 (1994)	151-195

Feijen, W.H.J., see F.W. van der Sommen Fernandez, JC., C. Jard, T. Jéron and C. Viho, An experiment in automatic	29 (1997)	327-334	
generation of test suites for protocols with verification technology			
Fiadeiro, J.L. and T. Maibaum, Categorical semantics of parallel program design	29 (1997)	123-146	
Fitzpatrick, S., T.J. Harmer, A. Stewart, M. Clint and J.M. Boyle, The automated transformation of abstract specifications of numerical algorithms into efficiency	28 (1997)	111-138	
array processor implementations	28 (1997)	1- 41	
Formato, F., see U.M. Borghoff	30 (1998)	201-225	
Frappier, M., A. Mili and J. Desharnais, A relational calculus for program construc-			
tion by parts	26 (1996)	237-254	
Frost, R.A. and B. Szydlowski, Memoizing purely functional top-down backtrack- ing language processors			
ing tanguage processors	27 (1996)	263-288	
Gabbrielli, M., see A. Bossi	27 (1996)	217-262	
Garavel, H. and L. Mounier, Specification and verification of various distributed	27 (1220)	217-202	
leader election algorithms for unidirectional ring networks	29 (1997)	171 102	
Gardiner, P.H.B., C.E. Martin and O. de Moor, An algebraic construction of	23 (132/)	171-197	
predicate transformers	22 (1994)	21- 44	
Gaudel, MC., Foreword	23 (1994)	105	
Giannotti, F. and D. Latella, Gate splitting in LOTOS specifications using abstract	20 (1774)	100	
interpretation	23 (1994)	127-149	
Gibbons, J., W. Cai and D.B. Skillicorn. Efficient parallel algorithms for tree	m. (1334)	101-142	
accumulations	23 (1994)	1- 18	
Giegerich, R. and S. Kurtz, A comparison of imperative and purely functional suffix	20 (1774)	1- 10	
tree constructions	25 (1995)	187-218	
Gouda, M.G., see A.K. Singh	21 (1993)	191-223	
Gribomont, E.P., Concurrency without toil: a systematic method for parallel pro-		211 984	
gram design	21 (1993)	1- 56	
Groote, J.F. and M. Rem, Foreword	29 (1997)	1- 2	
Guo, Y., see M.M.T. Chakravarty	30 (1998)	157-199	
Gupta, V., R. Jagadeesan and V.A. Saraswat, Computing with continuous change	30 (1998)	3-49	
Hagiya, M., see K.R. Apt			
Hankin, C. and S. Hunt, Approximate fixed points in abstract interpretation	21 (1993)	91- 92	
Hankin, C. and S. Hunt, Erratum to: Approximate fixed points in abstract inter-	22 (1994)	283-306	
pretation	22 /1000	102	
Hankin, C. and D. Le Mêtayer, Lazy type inference and program analysis	23 (1994)	103	
Harmer, T.J., see S. Fitzpatrick	25 (1995)	219-249	
Harrison, P.G. and R.L. While, Transformation of polynomial evaluation to a pipe-	28 (1997)	1- 41	
line via Horner's rule	24 /1005)	97 06	
Hayes, I.J., Supporting module reuse in refinement	24 (1995) 27 (1996)	83- 95 175-184	
Hayes, I., see R. Nickson	29 (1997)		
Henglein, F., Dynamic typing: syntax and proof theory		197-230	
Hennicker, R., see M. Bidoit	25 (1995)	149-186	
Hermenegildo, M., see F. Bueno	30 (1998)	51- 82	
Hillebrand, J.A., see J.A. Bergstra	29 (1997)	199 - 233	
Hofstee, H.P., Distributing a class of sequential programs	22 (1994)	45- 65	
Hoogendijk, P.F. and R.C. Backhouse, Relational programming laws in the tree, list, bag, set hierarchy			
Hook, J., see F. Bellegarde	22 (1994)	67-105	
Hughes, J. and J. Launchbury, Reversing abstract interpretations	23 (1994)	287-311	
Hunt, S., see C. Hankin	22 (1994)	307-326	
Hunt, S., see C. Hankin	22 (1994)	283-306	
	23 (1994)	103	
Iglewski, M. and J. Mincer-Daszkiewicz, Internal design of modules specified in the			
trace assertion method	28 (1997)	139-170	
Iyer, S.P., see J. Seaman	27 (1996)	289-322	

Jagadeesan, R., see V. Gupta	30 (1998)	3- 49
Jard, C., see JC. Fernandez	29 (1997)	123-146
Jay, C.B., A semantics for shape	25 (1995)	251-283
Jéron, T., see JC. Fernandez	29 (1997)	123-146
Jifeng, H., K. Seidel and A. McIver, Probabilistic models for the guarded command		
language	28 (1997)	171-192
Jones, G. and M. Sheeran, Designing arithmetic circuits by refinement in Ruby	22 (1994)	107-135
Jones, M.P., A theory of qualified types	22 (1994)	231-256
Kaldewaij, A. and L. de Vries, The matrix as in-situ data structure	24 (1995)	149-158
Kaldewaij, A. and V.J. Dielissen, Leaf trees	26 (1996)	149 - 165
Kapus, T. and Z. Brezočnik, Verification of XTP context management closing	20 (1770)	147-103
procedure in style of TLA	29 (1997)	23- 52
Katoen, JP. and B. Schoenmakers, Systolic arrays for the recognition of permuta-	27 (1771)	60 06
tion-invariant segments	27 (1996)	119-137
Kaufman, C., see M. Abadi	21 (1993)	93-113
Khoo, S.C., see C. Consel	21 (1993)	263-291
Klużniak, F. and M. Miłkowska, Spill - A logic language for writing testable	21 (1222)	203-271
requirements specifications	28 (1997)	103_223
Köhler, M., see M.M.T. Chakravarty	30 (1998)	157-199
Korver, H., Detecting feature interactions with CESAR/ALDEBARAN	29 (1997)	
Kosiuczenko, P. and M. Wirsing, Timed rewriting logic with an application to	ms (1851)	237 210
object-based specification	28 (1997)	225-246
Krieg-Brückner, B., Foreword	22 (1994)	181-182
Kurtz, S., see R. Giegerich	25 (1995)	187-218
	PO (1350)	10/-210
Lampson, B., see M. Abadi	21 (1993)	93-113
Larchevêque, J.M., Interprocedural type propagation for object-oriented languages	22 (1994)	257-282
Latella, D., see F. Giannotti	23 (1994)	127-149
Launchbury, J., see J. Hughes	22 (1994)	307-326
Le Gall, P., see G. Bernot	23 (1994)	227-286
Le Métayer, D., see C. Hankin	25 (1995)	219-249
Levi, G., see A. Bossi	27 (1996)	217-262
Lieberherr, K., see J. Palsberg	29 (1997)	303 - 326
Liu, Y.A. and T. Teitelbaum, Systematic derivation of incremental programs	24 (1995)	1- 39
Lock, H.C.R., see M.M.T. Chakravarty	30 (1998)	157-199
Lowe, G., see S. Curtis	26 (1996)	197-216
Lucena, C.J.P. and P.S.C. Alencar, A formal description of evolving software		
systems architectures	24 (1995)	41- 61
Lukkien, J.J., Operational semantics and generalized weakset preconditions	22 (1994)	137-155
Madey, J., see D.L. Parnas	25 (1995)	41- 61
Madey, J., A. Tarlecki and W.M. Turski, Foreword	28 (1997)	91
Madhukar, K., D. Pavan Kumar, C. Pandu Rangan and R. Sundar, Systematic	60 (1227)	91
design of an algorithm for biconnected components	25 (1995)	63 - 77
Maibaum, T., see J.L. Fiadeiro	28 (1997)	111-138
Martin, A.J., see R.J.R. Back	26 (1996)	79 - 97
Martin, C.E., see P.H.B. Gardiner	22 (1994)	21- 44
Matthews, B., see J. Bicarregui	29 (1997)	53 - 78
McIver, A., see H. Jifeng	28 (1997)	171-192
Meo, M.C., see A. Bossi	27 (1996)	217-262
Michel, L., see P. Van Hentenryck	30 (1998)	83-118
Mili, A., see M. Frappier	26 (1996)	237-254
Miłkowska, M., see F. Kluźniak	28 (1997)	193-223
Mincer-Daszkiewicz, J., see M. Iglewski	28 (1997)	139-170
Minea, M., see S. Campos	29 (1997)	79- 98
Mitchell, J.C., On abstraction and the expressive power of programming languages	21 (1993)	141-163
and the expressive power of programming languages	41 (1773)	141-102

Moir, M. and J.H. Anderson, Wait-free algorithms for fast, long-lived renaming.	**	
Moir, M., Fast, long-lived renaming improved and simplified		1- 39
Möller, B., Towards pointer algebra	30 (1998)	287-308
Möller, B. and M. Russling, Shorter paths to graph algorithms	21 (1993)	57- 90
Möller, B., Preface	22 (1994)	
Monin, JF., Exceptions considered harmless	26 (1996)	170 104
Montanari, U., see N. De Francesco	26 (1996)	179-196
Montanari, U., see F. Bueno	21 (1993)	225-261
Morgan, C., Foreword	30 (1998)	51- 82
Morley, M.J., Safety-level communication in railway interlockings	22 (1994)	1- 2 147-170
Mounier, L., see H. Garavel	29 (1997)	
The state of the s	29 (1997)	1/1-19/
Nguyen, T. and Y. Deville, A distributed arc-consistency algorithm	30 (1998)	227-250
Nickson, R. and I. Hayes, Supporting contexts in program refinement	29 (1997)	279-302
Nielson, F. and H.R. Nielson, The tensor product in Wadler's analysis of lists	22 (1994)	327-354
Nielson, H.R., see F. Nielson	22 (1994)	327-354
Nishimura, S., Integrating different versions of programs with backward and for-		
ward slices	27 (1996)	1- 35
Nishizaki, S., Programs with continuations and linear logic	21 (1993)	165-190
D-i D D DI		
Paige, R., see B. Bloom	24 (1995)	189-220
Palsberg, J. and M.I. Schwarzbach, Static typing for object-oriented programming	23 (1994)	19- 53
Palsberg, J., B. Patt-Shamir and K. Lieberherr, A new approach to compiling		
adaptive programs	29 (1997)	303-326
Pandu Rangan, C., see K. Madhukar	25 (1995)	63- 77
Pareschi, R., see U.M. Borghoff	30 (1998)	201-225
Parnas, D.L. and J. Madey, Functional documents for computer systems	25 (1995)	41- 61
Patt-Shamir, B., see J. Palsberg	29 (1997)	303 - 326
Pavan Kumar, D., see K. Madhukar	25 (1995)	63- 77
Pepper, P. and D.R. Smith, A high-level derivation of global search algorithms (with		
constraint propagation)	28 (1997)	247-271
Ponse, A. see J.A. Bergstra	29 (1997)	199-233
Prasad, K.V.S., A calculus of broadcasting systems	25 (1995)	285-327
Radoux, JP., see A. Arnold	28 (1997)	93-110
Rem, M., see J.F. Groote	29 (1997)	1- 2
Reniers, M.A., see S.H.J. Bos	29 (1997)	235-258
Rondogiannis, P. and M.H.W. Cheng, Petri-net-based deadlock analysis of Process	mr (1227)	Marie Marie
Algebra programs	23 (1994)	55- 89
Rosenzweig, D., see E. Börger	24 (1995)	249-286
Rossi, F., see F. Bueno	30 (1998)	51- 82
Russling, M., see B. Möller	22 (1994)	157-180
Russling, M., Deriving a class of layer-oriented graph algorithms	26 (1996)	117-132
	(
Sanders, B.A., see K.M. Chandy	24 (1995)	129-148
Sanders, B.A., see K.M. Chandy	29 (1997)	335
Sannella, D., Foreword	25 (1995)	79 - 80
Santone, A., see N. De Francesco	30 (1998)	309-338
Saraswat, V.A., see V. Gupta	30 (1998)	3- 49
Schneider, F.B., see S.D. Stoller	24 (1995)	105-128
Schneider, S., Timewise refinement for communicating processes	28 (1997)	43- 90
Schoenmakers, B., see JP. Katoen	27 (1996)	119-137
Scholefield, D., Proving properties of real-time semaphores	24 (1995)	159-181
Scholten, C.S., see A. Bijlsma	27 (1996)	205-214
Schulte, W., see K. Achatz	26 (1996)	59- 78
Schwartzbach, M.I., see J. Palsberg	23 (1994)	19- 53
Seaman, J. and S.P. Iyer, An operational semantics of sharing in lazy evaluation	27 (1996)	289-322

Segers, J. and J.C. Ebergen, Design and analysis of up-down counters	27 (1996)	185-204
Seidel, K., see H. Jifeng	28 (1997)	171-192
Sere, K., see R.J.R. Back	26 (1996)	79- 97
Shankar, N., Steps towards mechanizing program transformations using PVS	26 (1996)	33- 57
Sheeran, M., see G. Jones	22 (1994)	107-135
Singh, A.K. and M.G. Gouda, Rankers: a classification of synchronization problems	21 (1993)	191-223
Sintzoff, M., Editorial	26 (1996)	1- 2
Skillicorn, D.B., see J. Gibbons	23 (1994)	1- 18
Smith, D.R., see P. Pepper	28 (1997)	247-271
Smith, G.S., Principal type schemes for functional programs with overloading and subtyping	22 (1004)	197-226
Stølen, K., Refinement principles supporting the transition from asynchronous to	23 (1994)	197-220
synchronous communication	26 (1996)	255-272
Steffen, B., Generating data flow analysis algorithms from modal specifications	21 (1993)	115-139
Stewart, A., see S. Fitzpatrick	28 (1997)	1- 41
Stoller, S.D. and F.B. Schneider, Verifying programs that use causally-ordered	40 (1227)	1 41
message-passing	24 (1995)	105-128
Sundar, R., see K. Madhukar	25 (1995)	63- 77
Szydlowski, B., see R.A. Frost	27 (1996)	263-288
Tarlecki, A., see J. Madey	28 (1997)	91
Teitelbaum, T., see Y.A. Liu	24 (1995)	1- 39
Turski, W.M., I Was a Computer	26 (1996)	11- 14
Turski, W.M., see J. Madey	28 (1997)	91
Vaglini, G., see N. De Francesco	30 (1998)	309-338
van Ammers, E.W., Program families: Program construction by context indepen-		
dent refinements	30 (1998)	251-286
Van den Broek, P.M., see F.A. Van Gilst	24 (1995)	63- 81
Van den Eijnde, J.P.H.W., see R.C. Backhouse	22 (1994)	3- 19
van der Sommen, F.W., W.H.J. Feijen and A.J.M. van Gasteren, Peterson's mutual		
exclusion algorithm revisited	29 (1997)	327-334
van Gasteren, A.J.M., see R.C. Backhouse	22 (1994)	3- 19
van Gasteren, A.J.M., see F.W. van der Sommen	29 (1997)	327-334
Van Gilst, F.A. and P.M. Van den Broek, A new programming technique for lazy		
functional languages	24 (1995)	63- 81
Van Hentenryck, P., L. Michel and F. Benhamou, Newton - Constraint program-	30 /1000)	02 110
ming over nonlinear constraints Vaziri-Farahani, M., see J.M. Wing	30 (1998)	83-118
Viho, C., see JC. Fernandez	28 (1997)	273-299
von Karger, B., see R. Berghammer	29 (1997)	123-146
von Karger, b., see R. berghannner	26 (1996)	99-115
Watson, B.W. and G. Zwaan, A taxonomy of sublinear multiple keyword pattern		
matching algorithms	27 (1996)	85-118
While, R.L., see P.G. Harrison	24 (1995)	83- 95
Wing, J.M. and M. Vaziri-Farahani, A case study in model checking software		
systems	28 (1997)	273-299
Wirsing, M., see M. Bidoit	25 (1995)	149-186
Wirsing, M., see P. Kosiuczenko	28 (1997)	225-246
Woods, E., see J. Bicarregui	29 (1997)	53- 78
Yankelevich, D., see N. De Francesco	21 (1993)	225-261
Zwaan, G., see B.W. Watson	27 (1996)	85-118

